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WHAT IS CLAIMED IS:

1. A cultured embryonic stem (ES) cell, wherein the genome of said ES cell comprises a homozygous disruption of the P_{2X7} receptor, and wherein a cultured macrophage differentiated from said ES cell exhibits a phenotype of reduced ATP-stimulated post-translational processing of interleukin-1α (IL-1α), IL-1β, or IL-18, or reduced ATP-stimulated IL-6 production, or reduced ATP-stimulated intracellular accumulation of macromolecules.

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- 2. The cultured ES cell of claim 1, wherein said cell is human.
- 3. The cultured ES cell of claim 1, wherein said cell is murine.

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